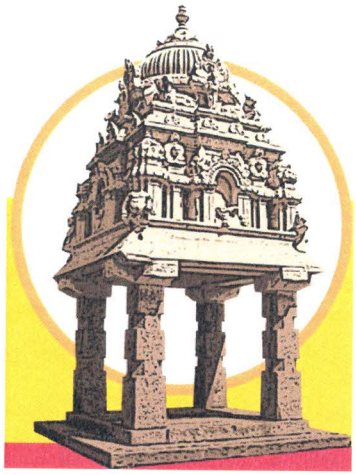
BRUHAT BANGALORE MAHANAGARA PALIKE



NAME OF WORK: IMPROVEMENTS TO ROADS AND DRAINS AT JAKKUR LAYOUT COLONY, IN WARD NO 07 - BYATARAYANAPURA, KODIGEHALLI SUB DIVISION.

CONSULTANT:

BVH CONSULTING ENGINEERS

41/2, 6TH MAIN ROAD JNANAJYOTHI NAGAR,
MALATHALLI, BANGALORE-560056
PHONE : 9964339888, LANDLINE:08023241948
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Bruhat Bangalore Mahanagara Palike

BYTARAYANAPURA DIVISION

Job No: 007-16-000043 26618

Name of Agency :- Benaka Developers and projects Pvt. Ltd

Bill No :- 2nd & Part Bill

Name of work: Improvements to Roads and drains at Jakkur Layout Colony, in ward No 07 - Byatarayanapura, Kodigehalli Sub Division.

Sl No	Description of Work	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17)								
	Measurements recorded on:								
	Desilt	**Cum**							
	Jakkur Layout Colony 1st A Cross Road RHS								
	0-30		1	30.00	0.45	0.30	4.05		
	30-60		1	30.00	0.45	0.30	4.05		
	60-90		1	30.00	0.45	0.30	4.05		
	90-120		1	30.00	0.45	0.30	4.05		
	120-150		1	30.00	0.45	0.30	4.05		
	150-180		1	30.00	0.45	0.30	4.05		
	180-199		1	19.00	0.45	0.30	2.57		
	Inner Road drain		1	8.90	0.45	0.30	1.20		
	Jakkur Layout Colony 2nd B cross Road								
	0-30		1	27.00	0.45	0.30	3.65		
	over burden earth								
	At 1st A cross road		1	22.00	2.80	0.50	30.80		
			1	29.00	1.50	0.45	19.58		
			1	26.00	1.70	0.35	15.47		
	At 2nd Bcross road		1	26.00	2.10	0.48	26.21		
			1	24.00	1.30	0.40	12.48		
					Total Qty Cum		**136.24**	**196.00**	**26703.92**
2	Removing & Refixing Stone slabs of drains and Pointing in C.M(1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17)								
	Measurements recorded on:								
	BS Slab Drain	**Sqm**							
	Jakkur Layout Colony 1st A Cross Road RHS at bottom		1	30.00	0.40		12.00		
	sides		2	30.00	0.50		30.00		
	at bottom		1	30.00	0.40		12.00		
	sides		2	30.00	0.50		30.00		
	at bottom		1	30.00	0.40		12.00		

15/1/18

Abhilash. N.D. 15/1/18

For B.V.R. Consulting Engineers

Proprietor

Abhilash. N.D
AE(WZ)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Sl No	Description of Work	Unit	No.	L	B	D	Qty	Rate	Amount
	sides		2	30.00	0.50		30.00		
	at bottom		1	30.00	0.40		12.00		
	sides		2	30.00	0.50		30.00		
					Total Qty Sqm		328.86	85.00	27953.10
3	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 10cms thick (P.No.25, I.No.5.31.2 of PW, P&IWTD SR 2016-17)								
	BS cover Slab 1st A cross								
	Laxmamma Ganganna Nilaya Opposite		1	10.00	1.20		12.00		
	Infront of Shri Anjeneya Krupa		1	15.00	0.90		13.50		
					Total Qty Sqm		25.50	867.00	22108.5
4	Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc,. Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17)								
	Jakkur Layout Colony 1st A Cross Road RHS bottom		1	30.00	0.40		12.00		
	sides		2	30.00	0.50		30.00		
	bottom		1	30.00	0.40		12.00		
	sides		2	30.00	0.50		30.00		
	bottom		1	19.00	0.40		7.60		
	sides		2	19.00	0.50		19.00		
	Inner Road drain connecting 1st A cross Bottom		1	8.90	0.40		3.56		
	sides		2	8.90	0.50		8.90		
	Jakkur Layout Colony 2nd B cross Road		1	27.00	0.40		10.80		
	sides		2	27.00	0.50		27.00		
					Total Qty Sqm		160.86	699.00	112441.14
17	KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.30 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW,P&IWTD S.R 2016-17)								
	Measurements recorded on:								
	Jakkur Layout Colony 1st A Cross Road								
	0-30		1	30.00	(2.7+2.6)/2	0.30	23.85		
	30-60		1	30.00	(2.6+2.4)/2	0.30	22.50		
	60-90		1	30.00	(2.4+2.7)/2	0.30	22.95		
	90-120		1	30.00	(2.7+2.5)/2	0.30	23.40		

Proprietor

Assistant Executive Engineer
Kodigehalli Sub Division

Sl No	Description of Work	Unit	No.	L	B	D	Qty	Rate	Amount
	120-150		1	30.00	(2.5+2.6)/2	0.30	22.95		
	150-180		1	30.00	(2.6+2.7)/2	0.30	23.85		
	180-199		1	19.00	(2.7+2.5)/2	0.30	14.82		
	Road beside 2nd B cross road Road cut portion								
	0-36		1	36.00	(1.2+1.3)/2	0.30	13.50		
	36-60		1	24.00	(1.3+1.3)/2	0.30	9.36		
					TOTAL QTY Cum		**177.18**	**156.00**	**27640.08**
7	KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.2 of PW,P&IWTD S.R 2016-17)								
	Measurements recorded on:								
	Jakkur Layout Colony 1st A Cross Road								
	0-30		1	30.00	(3.2+2.7)/2	0.15	13.28		
	30-60		1	30.00	(2.7+3.2)/2	0.15	13.28		
	60-90		1	30.00	(3.2+3.1)/2	0.15	14.18		
	120-150		1	30.00	(3.1+3.2)/2	0.15	14.18		
	150-180		1	30.00	(3.2+3.2)/2	0.15	14.40		
	180-199		1	19.00	(3.2+3.1)/2	0.15	8.98		
	Road beside 2nd B cross road Road cut portion								
	0-36		1	36.00	(1.1+1.3)/2	0.15	6.48		
	36-60		1	24.00	(1+1.1)/2	0.15	3.78		
	Culvert								
			1	4.00	2.00	0.15	1.20		
			1	5.20	2.00	0.15	1.56		
					Total Qty Cum		**91.30**	**5613.00**	**512452.87**

For B.V.H. Consulting Engineers

Proprietor

AE(W) 29/1/18

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Pal.
Bangalore - 560 092

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Sl No	Description of Work	Unit	No.	L	B	D	Qty	Rate	Amount
26	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum) ((P.No.177, I.No.22.6.1 of PW,P&IWTD SR 2016-17)								
	Measurement recorded on:								
	Jakkur Layout Colony 1st A Cross Road								
	0-30		1	30.00	(3.7+3.4)/2	0.15	15.98		
	30-60		1	30.00	(3.4+4.9)/2	0.15	18.68		
	60-90		1	30.00	(4.9+5.3)/2	0.15	22.95		
	90-120		1	30.00	(5.3+5.8)/2	0.15	24.98		
	120-150		1	30.00	(5.8+5.3)/2	0.15	24.98		
	150-180		1	30.00	(5.3+5.1)/2	0.15	23.40		
	180-199		1	19.00	(5.1+5.3)/2	0.15	14.82		
	Road side small cross		1	10.00	(1.5+1.5)/2	0.10	1.50		
	Road side small cross		1	3.00	1.00	0.10	0.30		
	Road side small cross		1	10.00	3.50	0.10	3.50		
	Jakkur Layout Colony 2nd B cross road								
	0-30		1	30.00	(3.1+2.3)/2	0.10	8.10		
	Jakkur Layout Colony Road beside 2nd B cross road Road cut portion								
	0-36		1	36.00	(2.8+2.7)/2	0.15	14.85		
	36-60		1	24.00	(2.7+2.8)/2	0.15	9.90		
			1	16.00	(1.8+1.2)/2	0.15	3.72		
	Jakkur Layout Colony Cross road opposite to 2nd B cross		1	10.00	(1.7+1.4)/2	0.10	1.55		
	Jakkur Layout Colony Cross Road 1								
	0-30		1	30.00	(2.7+3.1)/2	0.15	13.05		
	30-60		1	30.00	(3.1+3.4)/2	0.15	14.63		
	60-77		1	17.00	(3.4+2.3)/2	0.15	7.27		

For B.V.H. Consulting Engineers

Proprietor

AE(W2)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Sl No	Description of Work	Unit	No.	L	B	D	Qty	Rate	Amount
	Road side small cross		1	11.00	(2.9+3.7)/2	0.10	3.63		
	Road side small cross		1	6.00	(0.77+1.4)/2	0.10	0.65		
	Road side small cross		1	5.00	(1.2+0.9)/2	0.10	0.53		
	Road side small cross		1	8.00	(1+0.95)/2	0.10	0.78		
	Jakkur Layout Colony 3rd B cross road								
			1	22.00	(1.6+0.88)/2	0.10	2.73		
	Jakkur Layout Colony Road beside hello kids play groups		1	18.00	1.80	0.10	1.80		
	Small roads inside jakkur colony		1	8.00	(1.5+1.6)/2	0.10	1.24		
			1	6.00	(1.4+2.3)/2	0.10	1.11		
			1	10.00	(1.2+2.9)/2	0.10	2.05		
			1	12.00	(1.4+2.3)/2	0.10	2.22		
					Total Qty Cum		**240.87**	**6525.00**	**1571699.59**
27	Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17)								
	Measurement recorded on:								
	Jakkur Layout Colony 1st A Cross Road								
	0-30		1	30.00	(3.7+3.4)/2		106.50		
	30-60		1	30.00	(3.4+4.9)/2		124.50		
	60-90		1	30.00	(4.9+5.3)/2		153.00		
	90-120		1	30.00	(5.3+5.8)/2		166.50		
	120-150		1	30.00	(5.8+5.3)/2		166.50		
	150-180		1	30.00	(5.3+5.1)/2		156.00		
	180-199		1	19.00	(5.1+5.3)/2		98.80		
	Road side small cross		1	10.00	(1.5+1.5)/2		15.00		
	Road side small cross		1	3.00	1.00		3.00		
	Road side small cross		1	10.00	3.50		35.00		
	Jakkur Layout Colony 2nd B cross road								
	0-30		1	30.00	(3.1+2.3)/2		81.00		

AE(Ujd) N.D 28/02/18

For B.V.H. Consulting Engineers

Proprietor

AE(Ujd) N.D

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara Palike
Bangalore - 560 092

Sl No	Description of Work	Unit	No.	L	B	D	Qty	Rate	Amount
	Jakkur Layout Colony Road beside 2nd B cross road Road								
	0-36		1	36.00	(2.8+2.7)/2		99.00		
	36-60		1	24.00	(2.7+2.8)/2		66.00		
			1	16.00	(1.8+1.2)/2		24.00		
	Jakkur Layout Colony Cross road opposite to 2nd B cross		1	10.00	(1.7+1.4)/2		15.50		
	Jakkur Layout Colony Cross Road 1								
	0-30		1	30.00	(2.7+3.1)/2		87.00		
	30-60		1	30.00	(3.1+3.4)/2		97.50		
	60-77		1	17.00	(3.4+2.3)/2		48.45		
	Road side small cross		1	11.00	(2.9+3.7)/2		36.30		
	Road side small cross		1	6.00	(0.77+1.4)/2		6.54		
	Road side small cross		1	5.00	(1.2+0.9)/2		5.25		
	Road side small cross		1	8.00	(1+0.95)/2		7.84		
	Jakkur Layout Colony 3rd B cross road								
			1	22.00	(1.6+0.88)/2				
	Jakkur Layout Colony Road beside hello kids play groups		1	18.00	1.80		32.40		
	Small roads inside jakkur colony		1	8.00	(1.5+1.6)/2		12.40		
			1	6.00	(1.4+2.3)/2		11.10		
			1	10.00	(1.2+2.9)/2		20.50		
			1	12.00	(1.4+2.3)/2		22.20		
					Total Qty Sqm		**1697.78**	**100.00**	**169778.00**
10	KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13. (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2015-16)								
	Measurements recorded on:								
	Culvert		2.00	4.00	0.60	0.90	4.32		
			2.00	5.20	0.60	0.80	4.99		
					Total Qty Cum		**9.31**	**4657.00**	**43365.984**

For B.M.R. Consulting Engineers

Proprietor

AE(NR)

Assistant Executive Engineer
Kodigehalli Sub Division
Bruhat Bangalore Mahanagara
Bangalore - 560 092

BENGAL DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE

Sl No	Description of Work	Unit	No.	L	B	D	Qty	Rate	Amount
11	KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.112, I.No.15.1 of PW, P&IWTD S.R 2015-16)								
	Measurements recorded on:								
	Culvert		2.00	4.00		0.90	7.20		
			2.00	5.20		0.80	8.32		
		Sqm			**TOTAL QTY Sqm**		**15.52**	**108.00**	**1676.16**
12	KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17)								
	Measurements recorded on:								
	Coping Culvert		2.00	4.00	0.60	0.10	**0.48**		
			2.00	5.20	0.60	0.10	**0.62**		
					TOTAL QTY Cum		**1.10**	**6052.00**	**6681.41**
14	Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge								
	Culvert		6	1.80	0.60		6.48		
			8	1.80	0.60		8.64		
					TOTAL QTY Sqm		**15.12**	**5580.00**	**84369.60**
					Total Construction Cost				**2973521.54**

For B.V.H. Consulting Engineers

Proprietor

AE(Nor) 5/3/18

Assistant Executive Engineer
Kodigehalli Sub Division
Vrushabhavathi Bangalore Mahanagara Palike
Bangalore - 560 092

BENAKA DEVELOPERS AND PROJECTS PVT. LTD. BANGALORE